

AUTHOR INDEX

PII: S0969-8043(98)00191-2

Abrams S. A., 587
Adamiec G., 99
Adsley I., 1295, 1337
Agemura T., 1107
Ahlgren L., 667
Ahmed A. A., 783
Al-Agel F., 541
Al-Bahri J. S., 1677
Al-Ghorabie F. H., 643
Al-Hilal M., 117
Al-Lehyani S., 549
Al-Masri M. R., 767
Alam B., 133
Albertsson M., 639
Ali P. A., 559, 643, 647
Allen B. J., 591, 637, 735
Allen J. R., 591, 593
Almasoumi A., 125
Aloj L., 1477
Alpsten M., 437, 469, 561
Altitzoglou T., 1301, 1313, 1403, 1411
Andreoli A., 739
Andrew D., 1295
Angeyo K. H., 885
Areberg J., 639, 667
Argiro' G., 777
Arnold D., 1295, 1301
Asahara N., 35
Asai M., 829
Asghar M., 1497
Aslani A., 637
Asselin M.-C., 495
Atkins H. L., 277
Attie M. R. P., 1175
Attman P.-O., 665
Atzei G., 777
Avenell A., 457
Ayers L. M., 295
Azorin J., 1657

Baba S., 35
Backhouse J. S., 1337, 1393
Baggoura B., 867, 1745
Bailiff I. K., 99
Banerjee D., 1649
Bar-Or O., 495
Barker E., 19
Barquero L. R., 1377
de Bartolo D., 761
Battistini N., 619
Baumgartner R., 743
Baur L. A., 591
Bé M.-M., 1367
Beddoe A. H., 461, 465
Bedogni G., 619
Beets A. L., 309
Belgaïd M., 1497
Bengtsson B.-A., 469
Benkrid M., 867
Bennet C., 647
Benz M. L., 1307
Berger N., 511
Berger R., 961

Bergstrand E. S., 845
Bertini I., 493
Bhattacharyya D. K., 215
Biagini R., 1421
Biegalski S. R., 1289
Biersack H.-J., 309
Bilewicz A., 89
Bland C. J., 1225
Blessing G., 1519
Bloch P., 703
Blower P. J., 309
Bode P., 967
Boemi S., 777
Boivin C. M., 685
Bojanowski R., 1295
Bolewski Jr A., 1701
Bonifazzi C., 631
Boothe T. E., 1005
Boozer C. N., 731
Börjesson J., 437, 711
Borovnicar D. J., 671
Borsaru M., 125
Bosaeus I., 469
Bouchard J., 1113, 1259
Bouisset P., 19
Boulahdid M., 1745
Bourlat Y., 1295
Boursier B., 19
Bowles N. E., 1345
Bradley D. A., 147
Braillon P., 501, 623
Bramnert M., 667
Brar G. S., 977
Brati A. H., 753
Broda R., 1035, 1041, 1403, 1411
Brough P. A., 1573
Buckman S. M., 1135
Bukar J. G., 653
Bunce I. H., 651
Bunzl K., 1625
Burnett W. C., 1289
Byrne A. R., 1295

Calmet D., 19
de Camargo S. P., 997
Candeloro N., 493
Cantone M. C., 761
Caraco' C., 1477
Carlsson C. A., 565
Carlsson G. A., 565
Casnati E., 631
Cassette P., 1035, 1041, 1113, 1403, 1411
Cavouras D., 931, 1301
Cederblad Å., 561
Cesareo R., 835
Cessna J. T., 317
Chang S.-R., 1581
Channing M. A., 795
Chao J. H., 1587
Charbucinski J., 125
Charronneau E., 1605
Chattopadhyay S., 899

Chen C.-C., 361
Chen C.-J., 1613
Chen C. Y., 415
Chen F. D., 1641
Chen J. J., 1573
Chen S.-T., 1581
Chen T., 139
Chen W. L., 1641
Chen Z.-P., 1591
Chettle D. R., 495, 699, 713, 717
Chi D. Y., 73
Chiotellis E., 961
Chiou S.-T., 361
Chisaka H., 1729
Choe Y. S., 73
Choi Y., 73
Chou F. I., 1587
Chou J.-T., 361
Christiansen C., 681
Chu T.-C., 1671
Chumlea Wm. C., 489, 581, 727
Chung C., 415
Ciechanowski M., 1701
Ciocanel M., 1191, 1449
Cipriani C., 777
Close A., 703
Cochat P., 501, 623
Coenen H. H., 93, 1493, 1519
Cohen 1523
Collé R., 1403
Condren O. M., 1283
Conway J. M., 521
Cooper E. L., 1307
Cooper M. B., 227
Cornish B. H., 447, 475, 477, 479, 651
Coursey B. M., 275, 335
Cowen S. J., 621
Cox J. M., 1307
Crespo M.-T., 1295
Crispim V. R., 779
da Cruz M. T. F., 997

Dadvand N., 1609
Damame M. M., 773
Darawcheh R., 117
Darko J. B., 549
Das M. K., 899
Das N. R., 911
Day F. E., 1429
De U., 1649
De Felice P., 1421
De Lorenzo A., 493, 739
De Luca P. P., 739
De Martino S., 407
De Mingo A. J., 1377
Dell M. A., 335
Denecke B., 1099, 1117
Dersch R., 1171
Desmond J., 1295
Deurenberg P., 603
Dias M. S., 1175, 1373
Dilmanian F. A., 531
Dowling L., 723

Dryak P., 1403, 1411
 Du D.-X., 1619
 Du J., 1069
 Duchemin B., 1367
 Duggan W. P., 241
 Dulieu C., 1429
 Duman Y., 805

Eckelman W. C., 795, 1477
 Ehrhardt G. J., 295
 Einarsson L., 79, 1537
 Ekholm S., 561
 El-Hussein A., 783
 El-Sharkawi A. M., 643, 647
 Elegba S. B., 41
 Ellis K. J., 587, 653
 Ellis K. L., 503
 Elsinga P. H., 811
 Endeward B., 59
 Endo Y., 373
 Eriks-Fluks E., 811
 Erten H. N., 915
 Espartero A. G., 1277
 Esterlund R. A., 981
 Eston R., 507
 Etcheverry M., 1251, 1387
 Evans C. J., 507, 541, 549, 559, 643
 Evans W. D., 485

Fang P., 1591
 Faria Clain A., 1463
 Fazio A., 1295, 1421
 Fearon K. C. H., 621
 de Felice P., 1295, 1403
 Felson D. T., 745
 Felsteiner J., 631
 Fennell S., 1429
 Fernández F., 1235
 Fernández J. E., 83
 Ferreira A. C. M., 1463
 Ferrero Calabuig J. L., 1269
 Fessler A., 1319
 Fiedor P., 1563
 Fiehn-Schulze B., 1573
 Fill U. A., 791
 Filliben J., 1289
 Firnau G., 1573
 Fonseca K. A., 1175, 1373
 Forbes G. B., 571, 575
 Forslund A. H., 599
 Fountos G., 657
 Franssen E. J. F., 811
 Friebe M., 961
 Fujiyoshi R., 1
 Funtua I. I., 41
 Furnari J. C., 1523
 Fürst P., 607, 611, 615
 Furusawa T., 1383
 Furuta K., 1551
 Furuya Y., 1557

Galiano E., 105
 Galindo S., 1657
 Gallagher D., 473, 733, 743
 García E., 1749
 García-Torano E., 1325, 1349
 Garnuszek P., 1563
 Garrett R., 537
 Gascón J. L., 1295
 Gaskin K. J., 591, 593
 Gaudiano J. S., 309
 Geffroy B., 1259
 Genka T., 1383

Gennari C., 499
 Gerhardsson L., 711
 Gesundheit N., 653
 Ghara'ati H., 559
 Gigante G. E., 835
 Giraud S., 501
 Giussani A., 761
 Glaros D., 657
 Göksu H. Y., 99
 Golas D. B., 329, 335
 Gómez Escobar V., 875
 González D., 1749
 Grammes J., 473
 Grau Carles A., 1049, 1065, 1377
 Grau Malonda A., 1049
 Green S., 701
 Grieve R. S., 1295
 Grigorescu E. L., 1165
 Grossé G., 1117
 Grubb A., 711
 Gu W., 1633
 Guan Z. J., 1691
 Guhlke J., 309
 Guiard A., 19
 Günther E., 1055, 1403, 1411
 Guo S. S., 489, 581, 727
 Guzzo G., 499

Hainos D., 1035, 1041, 1259
 Håkanson R., 565
 Ham G. J., 1301
 Han T. S., 457
 Hancock D. A., 507, 541, 643, 647
 Handa K., 861
 Hannan M. T., 745
 Hannan W. J., 621
 Hansen Ch., 629, 687
 Hansen R. D., 735
 Hansson T., 1511
 Haradahira T., 1551, 1557
 Haraldsson B., 665
 Harding K. G., 677
 Harris T. B., 745
 Hartley B. M., 259
 Hasegawa Y., 1551
 Hashimoto H., 1245
 Hashimoto K., 351
 Hassager C., 681
 Hassan G. M., 823
 Heaton B., 197
 van Heertum R. L., 369
 Hendrikse N. H., 811
 Henriksen G., 357
 Henssen C., 955
 Hermann A., 1533
 Heymsfield S. B., 429, 473, 597, 603,
 733, 743
 Heyward V., 625
 Hicks V., 625
 Higgy R. H., 1709
 Hill G. L., 481
 Hino Y., 1123, 1179, 1245
 Hipkin J., 205
 Hirashima H., 1
 Hirschberg K.-J., 259
 Hocini N., 1745
 Hoff P., 357
 Hohn A., 93, 1493
 Hole E. O., 845
 Holland P. C., 529
 Holm E., 1283
 Holmes A. S., 1295
 Homma Y., 861

Hoogenboom J. E., 1737
 Horie M., 35
 Hosseini-Ashrafi M. E., 939
 Howman-Giles R., 593
 Hsu P.-C., 1619
 Huang W. T., 1595
 Hughes V., 723
 Hugtenburg R. P., 673
 Hult M., 1319
 Hultberg B., 711
 Humphries I. R. J., 591, 593
 Hussaini S. H., 661, 663
 Hutchinson D. E., 265
 Hwang H. Y., 1147, 1201

Iacopino L., 739
 Idris Y., 41
 Ikeda Y., 1481
 Ikemoto M., 1557
 Ikeya M., 823
 Inn K. G. W., 1289, 1301
 Inoue K., 1219
 Ishikawa N., 1159
 Iskandar D., 1421
 Itoh S., 1481
 Iwata R., 373
 Iyengar G. V., 903

Jerome S. M., 1295, 1345
 Jiang S.-H., 361
 Jiménez A., 1077
 Johannsen B., 5, 961
 Johansson A. C., 665
 Johansson G., 469
 John T. M., 1737
 Johnston P. N., 815
 de Jonge S., 1099
 Jørgensen H. L., 681
 Jørgensen L. V., 681
 Joshi V., 285, 1541
 Juanes Barber D., 1269

Kadar L., 639
 Kafala S. I., 1329
 Kandarakis I., 931
 Kanellopoulos M., 931
 Kao C. H., 1595
 Karelín Ye. A., 299
 Karmalitsyn N. I., 1363
 Kasugai Y., 985, 1481
 Kathren R. L., 149
 Kawada Y., 1123, 1245
 Kawade K., 829, 985, 1481
 Kawamura T., 1123
 Kehayias J. J., 723, 737
 Keightley J. D., 1135, 1191, 1345, 1449
 Kelly T. L., 511
 Kemball P., 211
 Kempisty T., 1041
 Kenchian G., 997
 Ketrin A. R., 295
 Kharitonov I. A., 1185
 Kiel D. P., 745
 Kilic A., 707
 Kim B.-T., 73
 Kim S. E., 73
 Kimura K., 55
 Kira A., 55
 Kistorp C. N., 515
 Knapp Jr. F. F. (Russ), 309
 Kobayashi S., 1123
 Koizumi M., 829
 Kojima Y., 829

Kolev D., 989
 Kolsky K. L., 285, 1489, 1541
 Kong X., 1529
 Korun M., 1231, 1295, 1301
 Koskinas M. F., 1175, 1373
 Kotler D., 603
 Kounadi E., 657
 Koziorowski J., 955
 Kreft A., 1701
 Kriemler S., 495
 Kronenberg A., 981
 Kropff J., 309
 Kubodera A., 1505
 Kullenberg R., 1511
 Kung C. H., 415
 Kurosawa T., 1729
 Kushita K. N., 1069

Lahiri S., 911
 Lai S.-Y., 29
 Landberg T., 639
 Langlois J., 745
 Lapillonne A., 501
 LaRosa J. J., 1313
 Laskey M. A., 507
 Lavi N., 1653
 de Lavison P., 1345
 Leblanc E., 1113
 Lee C.-H., 361
 Lee J. M., 1147, 1201
 Lee K.-J., 73
 Lee K. H., 73
 Lee P. D. K., 653
 Lee T.-W., 1581
 Lehto-Axtelius D., 565
 Leitão F., 923
 León Vintró L., 1283
 Lépy M.-C., 1083, 1367
 Levi J. A., 637
 Lewis D. G., 545, 707
 Liang J.-H., 361
 Liangquan G., 1713
 Liao C. C., 1641
 Licińska I., 1563
 Lillicrap S. C., 555
 Lima Da Cruz P. A., 1273
 Lin S.-W., 361
 Lin S.-Y., 1619
 Lin Y.-M., 29, 1613, 1671
 Lin Z. C., 1289
 Lin Z., 1301
 Lindén M., 667
 Lindstrom R. M., 1091
 Lineham S., 1345
 Liu C.-C., 1613
 Liu F., 67
 Liyanage J. A., 677
 Lomonte A. F., 531, 533
 Lönn L., 561
 Los Arcos J. M., 1077, 1403
 Losowsky M. S., 661, 663
 Lövqvist A., 1537
 Lozano J. C., 875
 Luca A., 1165
 Lucas L. L., 1061, 1141
 Lundqvist H., 79, 1537

Ma R., 531, 533, 603, 731
 de Macêdo H. R., 893
 MacMahon T. D., 1329
 Magnoni M., 1295
 Makepeace J., 1411
 Malanca A., 893

Malaspina D., 369
 Mangala J. M., 885
 Manhem P., 667
 Mannering D. M., 673
 Manzieri A. M., 619
 Mao S. Y., 1695
 Marageh M. G., 753
 Martín Sánchez A., 875, 1269
 Massalski T., 1701
 Mathieu J.-P., 1605
 Mattson S., 639
 Mattsson S., 437, 667, 711
 Mausner L. F., 285, 1489, 1541
 Mazariegos M., 607, 611, 615
 Mazurek A. P., 1563
 Mazzilli B., 423
 McCauley J. C., 591
 McClagish H., 485
 McNeil G., 457
 McNeill F. E., 495, 699, 713, 717
 de Medeiros J. A. G., 997
 Mendoza I., 611
 Mérat L., 13
 Meyer A., 607, 611
 Meyer B. R., 1073
 Miah F. K., 133
 Michaelsen K. F., 577
 Middelboe V., 855
 Milanov M., 1721
 Milner R., 525, 527
 Mirzadeh S., 309, 345, 379, 383
 Mishev P., 1721
 Mishra S. P., 43, 1467
 Mitchell A. D., 521
 Mitchell P. I., 1283
 Mitra S., 537
 Miyahara H., 985, 1107, 1127, 1159, 1383
 Möbius K., 59
 Mohammed A., 783
 Mølgaard C., 577
 Mølgaard A., 681
 Monetti G., 407
 Monk D. N., 481
 Montagnani M., 499
 Montomoli M., 499
 Moore R. I., 531, 533, 731
 Morales A., 1749
 Morales J., 1749
 Morel J., 1251, 1387
 Morgan H. M., 555
 Morgan W. D., 701
 Mori C., 1107, 1127, 1159, 1219, 1383
 Morin C., 1605
 Morukov B. V., 691
 Mudahar G. S., 977
 Mulinari M., 499
 Munslow-Davies L., 259
 Murakami I., 861
 Murakami N., 1383
 Murase Y., 861

Nader M. W., 1599
 Nagadi M. M., 397
 Nagata H., 1383
 Nagatsu K., 1505
 Nakamura T., 1729
 Nandy M., 911
 Naqvi A. A., 397
 Narayana D. G. S., 885
 Narbutt J., 89
 Natto S. A., 545
 Nayak D., 911

Nazaré Alves R., 1273
 Németh Z., 13
 Nicholl C., 1313
 Nichols A. L., 1337, 1393
 Nir-El Y., 1653
 Njeh C. F., 685
 Nomicos C. D., 931
 Nord R. H., 517, 519
 Noureddine A., 867, 1745
 Nuñez C., 473

O'Brien R. S., 227
 O'Doherty M., 309
 O'Grady J. G., 661, 663
 O'Kane M., 627
 O'Meara J. M., 713
 Oberdorfer F., 1599
 Odell K. J., 1295
 Ogg C. A., 707
 Oh S. J., 73
 Ohgaki H., 1179
 Ohsaki K., 373
 Okamoto E., 1557
 Okano Y., 1729
 Olander B., 565
 Oldroyd B., 525, 527, 529, 589, 627, 661, 663
 de Oliveira A. E., 1463
 Oliveira C., 923, 1685
 de Oliveira J., 423
 de Oliveira J. P., 1463
 de Oliveira Sampa M. H., 423
 Omura H., 1557
 Ortiz F., 1077
 Osa A., 829
 Ovcharenko N., 721
 Overwater R. M. W., 967

Paganetto G., 631
 Palabrica O. T., 335
 Palmedo H., 309
 Panayiotakis G. S., 931
 Papadopoulos M., 961
 Park T. S., 1147, 1201
 Parr R. M., 903
 Paschoa A. S., 189
 Patel J. P., 885
 Patterson M. A., 477
 Patzelt P., 981
 Paynter R. A., 205
 Pazirandeh A., 753
 Pejovic-Milic A., 717
 Péron M. N., 1035, 1041
 Perrin B., 701
 Petö G. C., 549, 553
 Picolo J. L., 1387, 1429
 Pierangeli L., 493
 Pierson Jr R. N., 429, 531, 597
 Pietrobelli A., 473, 743
 Pietzsch H.-J., 5
 Pimpl M., 1709
 Pirmettis I., 961
 Pithan C., 611, 615
 Pivarnik J. M., 653
 Plagnard J., 1083, 1113, 1367
 Plank L. D., 481, 749
 Plester C., 621
 Poli M., 619
 Pommé S., 1213
 Popplewell D. S., 1295
 Posada J. K. J., 503
 Poupaki I., 1295, 1345

Prestwich W. V., 717
 Puimedón J., 1749

Qaim S. M., 93, 1493, 1519
 Quinby J. B., 241
 Quintana B., 1235

Radwan R. M., 1165
 Rajurkar N. S., 773
 Ramamoorthy N., 899
 Rao D. V., 835
 Raptopoulou C., 961
 Rabback H. M., 531, 533
 Ratel G., 1403, 1429, 1437
 Ratelz G., 1417
 Razdolescu A., 1165
 Reano L., 625
 Regulla D. F., 791
 Reher D. F. G., 1417
 Reid D. M., 457
 Reimer P., 1519
 Repetti M., 893
 Revich B., 703
 Riazuelo G., 1251
 Richardson T. L., 511
 Roberts C., 147, 241
 Roberts D. C. K., 591
 Robinson B. A., 673
 Robinson S. M., 749
 Roche A. F., 581, 727
 Rodríguez M., 1277
 Rodríguez Barquero L., 1065, 1077
 Roldán García C., 1269
 Roman F., 663
 Roos P., 1283
 Rosilio C., 1259
 Ross R., 743
 Rossi G., 777
 Roteta M., 1349
 Roth P., 629, 687
 Roubenoff R., 737
 Roy S., 133
 Rush E. C., 749
 Ryde S. J. S., 507, 541
 Ryder S. J. S., 545

Saab H., 855
 Sabbarese C., 407
 Sáenz C., 1749
 Sagstuen E., 845
 Sahagia M., 1165, 1195
 Sakai H., 1219
 Sakurai S., 1131
 Salgado J., 923, 1685
 Salinas A., 1749
 Salle B. L., 501
 Samat S. B., 465
 Sandhu P. S., 977
 de Sanoit J., 1259
 Santry D., 1453
 Sanyal D., 1649
 Sarkar B. R., 899
 Sarsa M. L., 1749
 Sasaki M., 1557
 Sasso G. F., 739
 Satoh Y., 1481
 Savicki M., 737
 Sawamura S., 1
 Sazonova T. E., 1185, 1363
 Sbeinati M. R., 117
 Scheunemann M., 5
 Schima F. J., 317, 335, 1359
 Scholten B., 93

Scholten L. C., 273
 Scholz A. M., 521
 Schönfeld E., 1353
 Schötzig U., 1171, 1397, 1429
 Schrader H., 1397, 1429
 Schultz J., 1537
 Schultz M. K., 1289
 Schütz A., 711
 Scopetani N., 499
 Sedda A. F., 777
 Seifert S., 5
 Sekine T., 829
 Sepman S. V., 1185, 1363
 Seralta S., 1429
 Serov I. V., 1737
 Severi S., 619
 Shahwan T., 915
 Shakeshaft J. T., 555
 Shamsaie M., 559
 Shapiro I. M., 703
 Shaw P. V., 205
 Shepherd M., 259
 Shiba Y., 35
 Shibata H., 55
 Shibata M., 829, 985, 1481
 Shukla S. K., 777
 Shypailo R. J., 503
 Sibaike K., 1245
 Sibbens G., 1241
 Sidhu G. S., 977
 Siegert H., 1397
 Siemon K., 981
 Siervogel R. M., 489, 581, 727
 da Silva J. J. G., 779
 da Silva M. F., 1269
 Silva B., 423
 Simpson B. R. S., 1073, 1403, 1411, 1417
 Singh V. K., 43, 1467
 Sjöström L., 561
 Skerfving S., 697, 711
 Smetanin E. Ya., 305
 Smith A. H., 525, 527
 Smith D., 1135
 Smith D. E., 737
 Smith D. M., 211
 Smith G., 1289
 Smith M. A., 525, 527, 529, 589, 627, 661, 663
 Smith R. C., 637
 Snetkov A., 695
 Snieckus V., 1573
 Soares J. C., 1269
 Sohrabi M., 169, 1609
 de Solórzano A. O., 1749
 Solomons N. W., 607, 611, 615
 Sonck M., 1533
 Song D. H., 73
 Soo S., 661, 663
 Soule L., 703
 Spellerberg S., 1519
 Spies H., 5, 961
 Spyrou N. M., 1677
 Srivastava S. C., 285, 1541
 Stalnaker N. D., 1265
 Stamatelatos I. E., 731
 Stånga D., 1195
 Starck G., 561
 van der Steen J., 273
 Stemmler P., 1083
 Stenström M., 565
 Stewart S. P., 527, 589, 661, 663
 Stoilova T., 1721

Stokes M. J., 1691
 Stolarsky L., 625
 Stoneham D., 99
 Strauss B. J. G., 671
 Strebov A., 1721
 Stroud D. B., 479, 671
 Suárez J. A., 1277
 Sutton G., 1295
 Suzer S., 915
 Suzuki A., 335
 Suzuki H., 1245
 Suzuki K., 1505, 1551, 1557
 Suzuki M., 1551
 Suzuki T., 1107, 1127, 1729
 Svendsen O. L., 515
 Swanpalmer J., 1511
 Syhre R., 5
 Szabo T., 1117
 Szajek L. P., 795
 Szelecsényi F., 1005, 1533
 Szörényi Á., 1207, 1459
 Szűcs L., 1207
 Szyczewski A., 59

Tagawa S., 55
 Takács S., 1005, 1533
 Takahashi F., 1127
 Takata Y., 1301
 Takenaka Y., 1219
 Takeuchi N., 1383
 Talluri T., 493
 Tandon L., 903
 Tárkányi F., 1005, 1533
 Tartari A., 631
 Tartes I., 1041
 Tateishi M., 35
 Tauhata L., 1273, 1463
 Tavano E., 1005
 Taylor D. M., 677
 Terlikowska T., 1035, 1041
 Terry K. W., 259
 Theobald A., 1599
 Thomas B. J., 447, 475, 477, 479, 651
 Thornton J. C., 429, 597
 Tilbury R. S., 105
 Tiwari D., 1467
 Tölli J., 469
 Tolmachev V., 79, 1537
 Tomin V. I., 113
 Tomisawa H., 35
 Tomoi M., 373
 Toole J., 1295, 1337
 Toporov Yu. G., 299
 Tothill P., 457
 Touhiduzzaman M., 133
 Toussaint L. F., 259, 265
 Towne B., 727
 Toye W. C., 815
 Toyoda S., 823
 Triantis D., 931
 Trudgett C., 485
 Trunfio O., 619
 Truscott J. G., 529, 589, 627
 Tsai C. S., 1595
 Tsai Z.-T., 1581
 Tseng C. L., 1587
 Tsyganov Yu. S., 113
 Tunç M., 805
 Turner J. R., 673
 Tzaphlidou M., 657

Umar I. M., 41
 Ünak P., 805

Unterweger M., 1411, 1429
Ureña-Nuñez F., 1657
Uritani A., 1107, 1127, 1219
Ushida K., 55
Usman K., 1329
Usuda S., 1131

Vaalburg W., 811
Vágvölgyi J., 1207, 1459
Van Loan M. D., 751
Vera Tomé F., 875, 1269
Verdera E. S., 309
Verrezen F., 1403, 1411
Vianna M. E. C. M., 1463
Villar J. A., 1749
Visser M., 745
Vodopia K. A., 531, 533

Wahlqvist M. L., 671
Waker A. J., 717
Wakerley M. W., 1295
Wales J., 627
Wall B., 259
Walsh C. P., 1191
Walsh P., 379, 383
Wang B.-C., 1591
Wang C.-J., 29
Wang J., 429, 597
Wang J.-J., 29, 1671
Wang M. T., 1641
Wang T. S. T., 369
Wang Y., 1529
Wang Z., 473

Wang Z.-M., 603
Wangchang L., 1713
Ward L. C., 447, 475, 477, 479, 651
Watanabe K., 1123
Watanabe Y., 1551, 1557
Waters D. L., 591, 593
Webber C. E., 495, 713
Weber D. A., 531
Weber R., 981
Weinreich R., 955
Weng P.-S., 1619
Werner E., 629, 687
Wershofen H., 1295, 1301
Westmacott C., 527, 589, 627
Wight S. A., 1091
Williams D. R., 677
Wilson P. W. F., 745
Winkler G., 1033, 1153
Wisemandle W., 727
Wolff J. E., 537
Wong A. S., 1265
Wong T. H., 49
Wong W. W., 587
Woods D. H., 1345
Woods M. J., 1135, 1191, 1295, 1345,
 1417, 1445, 1449
Woods S. A., 1345
Woppard G. A., 481
Wu Y., 1107

Xiong D. W., 671
Xiong S., 139

Yamamoto H., 829, 985, 1481
Yamazaki S., 373
Yang J., 1529
Yasuda K., 1131
Yasumura S., 531, 533, 657, 731
Ye Z., 1713
Yeshun C., 1713
Yoshida A., 1159
Yoshida M., 1107, 1127
Yoshida Y., 55
Young A., 1301
Young E. C. M., 49, 1691, 1695
Youngman M. J., 1295
Yu K. N., 49, 1691, 1695
Yuan Y., 241

Zaichick V., 635, 695, 721, 1665
Zaichick V. Ye., 691
Zamboni C. B., 997
Zanevsky A. V., 1185, 1363
Zeisler S. K., 1599
Zeissler C. J., 1091
Zhang Y., 139
Zhang F., 67
Zhao X., 531, 533
Zhou M., 67
Zhou X., 1591
Zhou X.-Q., 1591
Zhuang H., 723, 737
Zimmerman B. E., 317
Zsinka A., 1459



SUBJECT INDEX VOLUME 49

PII: S0969-8043(98)00192-4

Accelerator

Development for measurement of Al in bones by NAA 717

Actinides

Development of phoswich detectors for simultaneous counting of α -particles and other radiations 1131

Activation analysis

Charged particle: use for analyses in the biological field 761

Fast neutron: in determination of total body muscle mass 737

NAA

Fast: use to determine Sr/Ca mass ratio in bones 1313

In vitro and *in vivo*: studies on bones of children with rickets like diseases 695

In vivo: accuracy for large samples: computer simulations 967

In vivo: body size corrections 531

In vivo: longitudinal measurements of cadmium burden of jig solderers 701

In vivo measurement of cadmium in the kidney 699

In vivo measurements of total body chlorine: calibration 533

In vivo: use to determine total body water 671

Of aluminium in bauxite ores in Nigeria 41

Of aluminium in peripheal bone 717

Of arsenic in hair 753

Use to determine mineral content of Ayurvedic medicinal plants 773

Use to measure body fat changes 507

PGNAA: calibration curves for cement raw material analysis 1685

PGNAA: Monte Carlo simulation using MCNP code 541

PGNAA: to assess total body protein in rats 731

PGNAA system for cement raw materials: density and water content corrections 923

Adsorption

Study by radiotracer technique of Cd(II) removal by alkali metal titanates 1467

Age

Effect on muscle distribution in adults 733

Related changes in body composition 581,589

Alanine

-Boron compounds: synthesis and development for thermal neutron fluence measurements 1657

Racemase: use in synthesis of [3- ^{11}C] pyruvic acid 1557

Albumin

Human serum: ^{125}I labelling and protein adsorption properties 67

Alpha particle

Alpha/beta discrimination: effects of primary solute 1065

Counting: development of phoswich detectors 1131

Decay in rare long-lived nuclei 113*

Emission probabilities in decay of ^{244}Cm 1325

Emitters: generator produced 345

Gross activity in surface and ground water of Rio Grande do Norte, Brazil 893*

Source, mixed: preparation by electrodeposition 1273

Spectra analysis: uncertainty assessment 1241

Spectrometry: choosing fitting functions for peak tails 1225

* Denotes a Technical Note.

<i>Aluminium</i>	
AA7075 alloy used in aircraft structure: detection of corrosion	779
Determination in bauxite ores by NAA	41
Determination in peripheal bone by NAA	717
<i>Americium</i>	
^{241}Am : concentration in sediments off the Cumbrian coast	1295
<i>Amide</i>	
N-[^{18}F]-fluoromethyl benzylation	73
<i>Amine</i>	
N-[^{18}F]-fluoromethyl benzylation	73
<i>Analyzer</i>	
For measurement of interval density distribution of pulses in nuclear detectors	1099
<i>Angular correlation studies</i>	
γ - γ : use to determine multipolarities and mixing ratios of γ -transitions following decay of ^{125}Sb	1349
<i>Animal</i>	
Pig: body composition analysis by DXA	521
Rabbit: effects of inflammatory osteoporosis on skeletal Ca/P ratio and bone structure	657
Rats: assessment of total body protein by PGNAA	731
Small: use of computed microtomography to monitor morphological changes	565
<i>Antimony</i>	
^{125}Sb : concentration in sediment off the Cumbrian coast	1295
^{125}Sb decay: γ -transitions to determine their multipolarities and mixing ratios	1349
^{125}Sb to $^{125\text{m}}\text{Te}$ branching ratio	1377
<i>Anti-tumour agent</i>	
Prostaglandin Δ^7 PGA methyl ester: ^{18}F labelling using <i>p</i> -[^{18}F] fluorobenzylamine	1551
<i>Arsenic</i>	
^{76}As : decay	997
Determination in hair by NA	753
<i>Ash</i>	
Gauge reading: effect of coal thickness change	1633
<i>Associated particle timing</i>	
Use in human body elemental analysis	549
With D + D and D + T neutrons: optimum parameters for imaging	553
<i>Astatine</i>	
^{211}At : nuclear characteristics and production parameters	345
<i>Autoradiography</i>	
Digital: use in characterization of radioactive particles	1091
<i>Background</i>	
Track: reduction in plastic detectors	1609
<i>Barium</i>	
Ba^{2+} cations: sorption studies on magnesite	915
^{133}Ba decay: photopeak intensities of γ -rays by multichannel time scaling technique	1201
Ions: removal from aqueous solutions by hydrous bismuth oxide	43
<i>Basidiomycetes</i> see also <i>Mushrooms</i>	
Radioactivity concentrations of ^{137}Cs and ^{40}K in Taiwan	29
<i>Bauxite</i>	
In Nigeria: determination of Al content by NAA	41
<i>Beam</i>	
Monitoring: characteristics of Desmarquest AF995R phosphor	55
<i>Beryllium</i>	
^7Be : n.c.a. production from target cooling water	1489
<i>Beta particle</i>	
Alpha/beta discrimination: influence of primary solute	1065
Gross activity in surface and ground water of Rio Grande do Norte, Brazil	893*

Low level measurement: technique of simultaneous counting in anticoincidence and difference modes	1195
<i>Bioelectrical impedance analysis (BIA)</i>	
Comparison to DXA for fat free mass determination	739
Factors affecting <i>in vivo</i> precision	485
Precision in children	529
Use for proximal and distal measurements of extracellular and total body water in surgical patients	621
Use to assess fat free mass, muscle bulk and strength in liver disease	661
Use to measure alterations in body water distribution in children	619
<i>Bioimpedance</i> see also <i>Spectrometry (BIS)</i>	
Analysis: comparison of segmental and wrist to ankle methods	477
Body analysis: relevance of hydration state in estimating fat mass	499
Estimates of fat free mass in Caucasian and Chinese American women	751
Measurements: effect of temperature and sweating	475
Multifrequency: use to quantify lymphodema	651
Multifrequency analyser: comparison of SEAC SFB3 and XITRON 4000B	479
Multifrequency analysis: use to assess hydration status in humans	495
Multifrequency spectroscopy: evaluation for measurement of extracellular water space	481
Potentials and limitations in young children with acute and semiacute hydration disorders	611
Single frequency analysis: potential for measurement of upper extremity muscle mass	473
Use to monitor fluid changes in hospitalised, malnourished Guatemalan children	615
Use to monitor water changes in young children with diarrhoeal disease	607
<i>Bismuth</i>	
^{205}Bi and ^{206}Bi cyclotron produced: isolation using a lead selective extraction chromatographic resin	357*
^{212}Bi separation from natural thorium	89
^{213}Bi : nuclear characteristics and production parameters	345
Bi-2201, -2212 and -2223 superconductors: study of systematics by positron annihilation radiation measurements	1649
Hydrous oxide: use for removal of Ba ions from aqueous solutions	43
<i>Body</i>	
Assessment of total protein in rats by PGNAA	731
Cell mass: review of quality of measurements in 1996	429
Composition	
Adult changes with changes in cholesterol	727
Age related changes	589
Age and maturity related changes during adolescence to adulthood	581
Assessment of children with cystic fibrosis	591
Calculations in males: evaluation of modified multicompartment models	599
Changes during chemotherapy for breast cancer	637
Changes during the growth of children	577
Changes in very obese women on hypocaloric diets: study using DXA	627
In renal failure and effect of dialysis	665
Influence of weight on longitudinal changes	571
Of HIV/AIDS males: effect of treatment with insulin like growth factor and growth hormone	653
Reference data for young multiethnic females	587
Composition by DXA	
Dependence on physics or scanner	517
Differences in results with manufacturer, instrument generation and software	515
Of pigs weighing 5–97 kg	521
Stability with lunar DPX system	519
Theory and practice	511

Composition in growth hormone deficient patients: comparison of methods of measurement	469
Composition <i>in vivo</i> : comparison of two lunar DXA absorptiometer measurements	527
Composition measurements	
CT: dose reduction	561
CT: dose reduction (erratum)	I (12)
γ -ray back scatter	555
Precision when using dual energy x-ray absorptiometry	501
Using DXA in tamoxifen treated patients	643
Fat	
And lean in the elderly by measuring C/O ratio	723
Changes: measurement by NA, densitometry and (DXA) dual energy x-ray absorptiometry	507
Comparison between measurements by DXA, MRI and under water weighing	457
Estimation or guesstimation	461
Free mass determination: bioelectrical impedance vs. DXA	739
Free mass, muscle bulk and strength in liver disease	661
Mass: relevance of hydration status of FFM estimation by BIA	499
Total: measurement and prediction	465
Human	
Elemental analysis using associated particle timing based on the D + D reaction	549
Trace element concentrations <i>in vivo</i> using x-ray fluorescence	437
Protein: as a prognostic instrument for cancer patients	639
Protein: amount during long term treatment with GH of adults with growth hormone deficiency	667
Total capacity: correlation with basal metabolic rate	493
Total chlorine: calibration of <i>in vivo</i> NAA measurement	533
Total composition analyser: calibration of prototype	537
Total oxygen: assessment from body weight and total body water	603
Size: corrections for <i>in vivo</i> NAA	531
Water: phase angle spectrum analysis	489
Water compartments: determination by bioimpedance spectrometry	447
Weight change: effect of exercise on fat free mass	575
Use of BIA to measure alterations in water distributions in children	619
Bone	
Ash: determination of ^{90}Sr content	1313
Ash: development of NIST standard reference material for environmental studies	1301
Bone palliation	
Measurement standards for ^{89}Sr	335
Overview of nuclides	277
Production of $^{117\text{m}}\text{Sn}$ at BNFL	285
Radiopharmaceutical $^{117\text{m}}\text{Sn}(+4)$ DTPA: standardisation	317
Reactor produced isotopes at Oak Ridge	309
Density in very old humans: relation to muscle mass and fat mass	745
<i>In vitro</i> and <i>in vivo</i> NAA studies of children with rickets like diseases	695
Measurement of uranium content by <i>in vivo</i> XRF	713
Mineral density: determination by photon absorptiometry	1511
Mineral density: determination by quantitative ultrasound	681
Mineral density in children with cystic fibrosis	593
Mineral density: variation between anatomical sites in normal local population	685
Mineral studies <i>in vivo</i> during a 370 day anti-orthostatic hypokinesia test	691
Rabbit: effect of inflammatory osteoporosis on Ca/P ratio and structure	657
Radiologically important trace elements: review	903
Skeletal age: assessment by Fels method	581
Sr/Ca mass ratio determination using fast NAA	1319
Book review	
Computational atomic physics: electron and positron collisions with atoms and ions	859

Radon measurements by etched track detectors: applications in radiation detection, earth sciences and the environment	1755
Thermoluminescence dosimetry materials: properties and uses	405
<i>Breast</i>	
Cancer chemotherapy: body composition changes	637
Normal and pathological tissue: determination of electron density	1677
<i>Bremsstrahlung</i>	
Isomeric yield ratios	989
<i>Bromine</i>	
^{76}Br : production by low energy cyclotron	1537
^{77}Br : cyclotron production via the $^{79}\text{Br}(\text{p},3\text{n})^{77}\text{Kr} \rightarrow {}^{77}\text{Br}$ reaction using a liquid target	105
Stable: use in estimation of extracellular water	635
X-ray fluorescence analysis for estimation of extra cellular water	1665
<i>Buildings</i>	
Radioactivity contaminated: dose equivalent evaluation for residents	1641
<i>Cadmium</i>	
<i>In vivo</i> measurement in kidney by NAA	699
Liver and kidney burdens of jig solderers by IVNAA	701
Removal by adsorption on alkali metal titanates: radiotracer study	1467
Smelter workers: assessment of risk of kidney effects by <i>in vivo</i> XRF	711
Toxicology	697
<i>Calcium</i>	
Kinetic investigations and their clinical use	687
Skeletal Ca/P ratio: effects of inflammatory osteoporosis	657
Sketal mass: correlation with muscle mass in humans	597
<i>Californium</i>	
^{246}Cf : detection as a rare α -decay of long lived nuclei	113*
^{252}Cf neutron source: production at RIAR	299
<i>Cancer</i>	
Breast: changes in body composition during chemotherapy	637
Patients: body protein as a prognostic instrument	639
<i>Canister</i>	
Charcoal: use for indoor measurements of radon and thoron gas	1691
Charcoal, with a diffusion barrier: modelling to improve adsorption of radon	49
<i>Capacitance</i>	
Total body: correlation with basal metabolic rate	493
<i>Carbon</i>	
To oxygen ratio as a measure of body fat: comparison to hydrodensity	723
<i>Carbon dioxide</i>	
$^{14}\text{CO}_2$: measurement in the environment using passive sampling	1307
<i>Catalyst</i>	
Polymer supported: for on-column preparation of $[^{18}\text{F}]\text{-FDG}$	373
<i>Cell</i>	
Body: review of quality of mass measurements in 1996	429
<i>Cement</i>	
Raw material analysis by PGNAA system: density and water corrections	923
Raw material analysis by PGNAA using MCNP code: calibration curves	1685
<i>Cerenkov</i>	
Counting efficiency: effect of anisotropy coefficient	1049
Counting of radiostrontium in environmental samples	1671
<i>Cerium</i>	
^{139}Ce : standardisation by triple to double coincidence ratio method and LSC	1035
Cross sections for $(\text{n},2\text{n})$ (n,p) and (n,α) reactions at 14.7 MeV	1529
<i>Cesium</i>	
Cs^+ cation: sorption studies on magnesite	915

^{134}Cs and ^{137}Cs : concentration in sediment off Cumbrian coast	1295
^{134}Cs and ^{137}Cs deposition in soil: monitoring by use of mushrooms as a bioindicator	19
^{137}Cs concentration in mushrooms in Taiwan	29
^{137}Cs concentration in soil in and around Dhaka city (Bangladesh)	133
^{137}Cs : transfer in three types of vegetables in Hong Kong	1695
Review of data for content in bone	903
<i>Charcoal</i>	
Canister for measurement of indoor concentrations of radon and thoron	1691
Canister with a diffusion barrier: modelling to improve adsorption of radon	49
<i>Chelating agent</i>	
Mixed ligand Rh complexes: synthesis, structure, lipophilicity and protonation behaviour	961
<i>Chemotherapy</i>	
In breast cancer: body composition changes	637
<i>Children</i>	
Assessment of Pb exposure by KXRF measurements on shed teeth	703
Guatemalan, hospitalised and malnourished: monitoring of fluid changes	615
Use of BIA to measure alteration in body water distribution	619
Use of DXA to study body composition changes during growth	577
With cystic fibrosis: assessment of body composition	591
With cystic fibrosis: volumetric bone mineral density	593
With hydration disorders: potentials and limitations of bioelectrical impedance spectroscopy	611
With rickets like diseases: <i>in vivo</i> and <i>in vitro</i> NAA for studying bones	695
Young with diarrhoeal disease: use of bioimpedance spectroscopy to monitor water changes induced by rehydration	607
<i>Chlorine</i>	
Total body by <i>in vivo</i> NAA: calibration of measurements	533
<i>Cholesterol</i>	
Changes in levels: effect on adult changes in body composition	727
<i>Chromatography</i>	
Use of lead selective resin for extraction of ^{205}Bi , ^{206}Bi and ^{203}Pb	357*
<i>Chromium</i>	
K_{β}/K_{α} x-ray intensity ratios	1367
<i>CIEMAT/NIST method</i>	
Use in the standardisation of ^{55}Fe and ^{65}Zn	1055
Use in the standardisation of ^{49}V	1077
<i>Cisplatin</i>	
<i>In vivo</i> analysis using XRF: Monte carlo methods	673
<i>Coal</i>	
Ash thickness change: effect on dual energy γ -ray gauge reading	1633
<i>Coatings</i>	
Measuring transport of ions by β -decaying nuclides	13
<i>Cobalt</i>	
^{55}Co and ^{57}Co production <i>via</i> proton induced reactions on highly enriched ^{58}Ni	1519
^{56}Co : source preparation and disintegration rate measurement	1159
K_{β}/K_{α} x-ray intensity ratios	1367
<i>Code</i>	
EGS4 Monte Carlo: use to measure response of $4\pi\gamma$ ionisation chamber	1245
LAURA: development for numerical evaluation of production of radionuclides	379, 383
<i>MCNP</i>	
Benchmarking for Monte Carlo modelling of an <i>in vivo</i> NAA system	545
Density and water content corrections for a PGNAA system for cement raw materials analysis	923
For cement raw materials analysis	1685
Use for Monte Carlo simulation of PGNAA	541

<i>Collimator</i>	
Parameters and optimization in radioisotope imaging	939
<i>Compton scattering</i>	
Of 662 keV γ -rays from the K-shell electrons of tantalum	815
Use to determine electron density of normal and pathological breast tissue	1677
<i>Computer</i>	
Aided design of a polarised source for <i>in vivo</i> XRF	707
Modelling of impact of enhancing activity of NORM	227
Simulations of speciation analysis: use for monitoring trace elements in wounds and wound fluids	677
Simulations of spectrometry counting: time distortion of a Poisson process and its effect on experimental uncertainty	1213
Simulations of the effects of inhomogeneities on accuracy of large sample INAA	967
<i>Contamination</i>	
Measurements: choice of instrument for NORM levels	197
<i>Copper</i>	
^{61}Cu : production from nickel target	79
^{67}Cu : production at BNFL: for nuclear therapy	285
K_{β}/K_{α} x-ray intensity ratios	1367
<i>Corrosion</i>	
Detection in aircraft aluminium alloys	779
<i>Counter</i>	
Gas flow proportional: gain stabilisation	1117
Proportional: evaluation of counting loss and correction for gas samples	1107
<i>Counting</i>	
Anisotropy coefficient effect in Cerenkov counting	1049
Automatic compensation of dead time effects	1123
Cerenkov: use in analysis of radiostrontium in environmental samples	1671
Cerenkov: use to measure radioactivity of ^{188}Re	1069
Coincidence: improved technique for standardisation of radionuclides	1147
Computer based: pulse recording system	1141
Digital coincidence system: validation	1135
Integral method: use to determine ^{222}Rn in water	861
Internal: evaluation of counting loss	1107
Liquid scintillation and TDCR method for standardisation of ^{139}Ce	1035
Poisson statistics: time distortion and effect on experimental uncertainty	1213
Role of covariances for uncertainty estimates	1153
<i>Curium</i>	
$^{243}\text{Cm}/^{244}\text{Cm}$ ratio: determination in environmental samples	1283
^{244}Cm decay: α particle emission probabilities	1325
<i>Cyclohexane</i>	
Scintillator: measurement of deuteron and proton response functions	397
<i>Cyclotron</i>	
Production of ^{76}Br	1537
Production of carrier free ^{77}Br	105
Production of $^{120\text{g}}\text{I}$ via the $^{120}\text{Te}(\text{p},\text{n})$ process: nuclear data	1493
<i>Data</i>	
Nuclear: traceability and management	1523
<i>Dead time</i>	
Effects: automatic compensation	1123
<i>Decay</i>	
Alpha: measurement of long lived nuclei	113*
Data: assessment and evaluation for nuclear reactor applications	1393
Determination of ^{125}Sb to $^{125\text{m}}\text{Te}$ branching ratio	1377
Of ^{76}As	997
Of ^{27}Mg : gamma ray emission probabilities	985

<i>Densitometry</i>	
Estimation of fat free mass in Caucasian and Chinese American women	751
Hydro: comparison of C/O ratio measurements in assessment of body fat in the elderly	723
Use to measure body fat changes	507
<i>Density</i>	
Corrections in γ -count rate of a PGNAA system for cement raw materials	923
<i>6-Deoxy-6-iodo-D-glucose (6DIG)</i>	
Synthesis and radiolabelling	1605*
<i>Desmarquest AF955R</i>	
Phosphor for beam monitoring: characteristics	55
<i>Detector</i>	
Chinese LiF:Mg,Cu,P(GR200)TL: use to detect therapy level absorbed doses	791*
Cryogenic: development	1113
Crystal: calculation of average path of γ -rays	1231
Plastic: reduction of background tracks	1609
Phoswich: development for actinides	1131
Radwaste system: parametric study of shell-source method of calibration	361
Signal: high order effects in the processing	1099
Silicon: use to measure radon emanation and exhalation from soils	407
Si(Li): response for low energy photons	1083
Stability: determination with ^{152}Eu as reference	1397
Thermal neutron fluence: synthesis and development of alanine-born compound	1657
X-ray in mammography: evaluation of imaging characteristics of $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$ phosphor	931
<i>Deuterated cyclohexane</i>	
Scintillator: deuteron and proton response functions	397
<i>Deuterium</i>	
Measurements: use to determine lean body mass changes with age	571
<i>Deuteron</i>	
Measurement of response functions of deuterated-cyclohexane and hexane scintillators	397
<i>Dialysis</i>	
Effect on body composition in renal failure	665
<i>Diffusion</i>	
Monitoring with β -tracers	13
<i>9,10 Diphenyl anthracene</i>	
Influence on α -counting efficiency	1065
<i>Disintegration rate</i>	
Measurement for ^{56}Co	1159
Measurement for ^{67}Ga	1175
<i>Dithizone</i>	
Carboxylic derivatives: synthesis and radioiodination	1563
<i>Dosimeter</i>	
ESR: use with lithium lactate	823
Thermoluminescent $\text{CaF}_2:\text{Tm}$: response to protons in the 15–30 MeV range	1619
<i>Dosimetry</i>	
Calculation of dose for dominant pathways of exposure due to enhanced NORM	227
Dose equivalent evaluation for residents in radioactivity contaminated buildings	1641
ESR/alanine: estimation of dose uncertainty	845
For nuclides used in bone pain palliation	277
Radiation dose to the human respiratory tract from inhalation of ^{222}Rn and its progeny	783
Reduction of dose for body composition measurements with CT	561
Retrospective TL: predose effect in 230°C TL glow peak on porcelain	99
Therapy level: efficacy of Chinese LiF:Mg,Cu,P(GR200)TL detectors	791*

<i>Dual energy x-ray absorptiometry (DXA)</i>	
Body composition: dependence on physics or scanner	517
Body composition measurements: theory and practice	511
Comparison to BIA for fat free body mass determination	739
Comparison with four component model estimate of body fat in American women	625
DEXR: development of whole body phantoms	503
DEXR: use to measure body fat changes	507
Differences in body composition results depending on manufacturer, instrument generation and software	515
Estimates of fat free mass in Caucasian and Chinese American women	751
Pilot study with very obese women	627
Precision of body composition measurements	501
Two component soft tissue model: lean R value	743
Use for body composition measurements in tamoxifen treated patients	643
Use to assess risk factors for loss of lean body mass after liver transplantation	663
Use to determine changes in body composition during growth in children	577
Use to determine volumetric bone mineral density in children with cystic fibrosis	593
Use to provide body composition and reference data for young multiethnic females	587
<i>Dysprosium</i>	
Cross sections for (n,2n) (n,p) and (n,α) reactions at 14.7 MeV	1529
<i>Earthquake</i>	
Zone in W. Syria: radon variations in ground water	117
<i>Electrodeposition</i>	
Use in preparation of mixed α-sources	1273
<i>Electrolyte</i>	
Metabolism studies using stable isotopes as tracers	629
<i>Electron capture</i>	
Fractional: calculation of probabilities	1353
<i>Electron density</i>	
Measurements of normal and pathological breast tissues	1677
<i>Electrostatic collector</i>	
Use in measurement of radon emanation and exhalation rates from soils	407
<i>Element</i>	
Analysis of the human body using associated particle timing based on the D + D reaction	549
<i>Elemental partition analysis (EPA)</i>	
Use to determine body composition	737
<i>ENDOR</i>	
Study of γ-irradiated hydrated testosterone orthorhombic single crystals	59
<i>Environment</i>	
Effect of NORM and regulatory implications	189
Field survey instrumentation for NORM	197
Passive sampling of airborne ¹⁴ CO ₂	1307
Radioactivity measurement: development of NIST bone ash standard reference material	1301
World wide studies of effects of NORM	169
<i>Erbium</i>	
Cross sections for (n,2n) (n,p) and (n,α) reactions at 14.7 MeV	1529
<i>Euromet 297 project</i>	
Activity concentration measurement of ⁶⁵ Ni and ⁵⁵ Fe	1403
<i>Europium</i>	
Cross sections for (n,2n) (n,p) and (n,α) reactions at 14.7 MeV	1529
¹⁵² Eu decay: estimation of photopeak intensities of γ-rays by multichannel time scaling technique	1201
¹⁵² Eu and ¹⁵⁴ Eu half life measurements	1397
¹⁵⁴ Eu and ¹⁵⁵ Eu concentration in sediments off the Cumbrian coast	1295

<i>Excitation functions</i>	
Of (p,x n) reactions on highly enriched ^{122}Te : relevance to production of $^{120\text{g}}\text{I}$	93
<i>Extraction</i>	
Industries: potential environmental and regulatory implications of NORM wastes	189
<i>Fat</i>	
<i>Body</i>	
Changes: measurement by NA, densitometry and dual energy x-ray absorptiometry	507
Comparison between measurements by DXA, MRI and underwater weighing	457
Effect of exercise and weight change on free mass	575
Estimation in Caucasian and Polynesian women	749
Estimation or guesstimation	461
In American Indian man: comparison of DXA and 4-component model estimates	625
Relevance of hydration status of FFM in estimation by BIA	499
Total: measurement and prediction	465
Mass in relation to bone mineral density in very old men and women	745
Photon scattering data for <i>in vivo</i> lean and fatty tissue composition syndromes	631
<i>Feedstuff</i>	
Poultry excreta: changes in N content and <i>in vitro</i> digestibility due to drying and γ -radiation	767
<i>Fels longitudinal study</i>	
Adult changes in body composition and association with cholesterol levels	727
Of age and maturity related changes in body composition	581
<i>Female</i>	
Active vs. sedentary age 55–75: fat free mass	735
Caucasian and Chinese American: estimates of fat free mass by densitometry, DXA and BIS	751
Caucasian and Polynesian: estimation of body fat from anthropometric measurements	749
Obese on hypocaloric diets: pilot study using DXA to measure changes in body composition	627
Young multiethnic population: body composition reference data	587
<i>Fermium</i>	
^{235}Fm : nuclear characteristics and production parameters	345
<i>Fibrinogen</i>	
^{125}I labelling and protein adsorption properties	67
<i>Fluid</i>	
Changes: monitoring in hospitalised malnourished Guatemalan children by BIS	615
Wound: trace element concentrations and speciation	677
$[^{18}\text{F}]$ <i>Fluorobenzylamine</i>	
Use to synthesise ^{18}F analog of Δ^7 PGA methyl ester	1551
$[^{18}\text{F}]$ <i>FDG</i>	
Polymer supported catalysts for on-column preparation	373
6- $[^{18}\text{F}]$ - <i>Fluoro-L-DOPA</i>	
Automated synthesis using modified polystyrene supports with 6-mercuric DOPA	795
$[^{18}\text{F}]$ <i>Fluoromethyl benzyl sulphonate ester</i>	
Use for N- $[^{18}\text{F}]$ fluoromethyl benzylolation of amides and amines	73
<i>Foil</i>	
Gold: activity measurement of ^{198}Au	1185
$[^{11}\text{C}]$ <i>Formaldehyde</i>	
Low temperature synthesis with metal hydrides	1599
<i>Fuel</i>	
Spent: recycling at State Scientific centre of the Russian Federation	305
<i>Gadolinium</i>	
^{153}Gd : production at RIAR	299

Gallium

Defroxamine complex: stability with different defroxamine concentrations and incubation conditions	1477*
⁶⁷ Ga	
Absolute disintegration rate measurements	1175
Assays: intercomparisons in UK hospitals 1996	1449
Preparation with low iron content by cation exchange	899

Gamma ray

Back scatter for body composition measurement	555
Calculation of average path in crystal of semi-conductor γ -ray spectrometers	1231
Emission probabilities in the decay of ²⁷ Mg	985
Emission probabilities of ¹⁸² Ta	1383
Main emission probabilities following decay of ²²² Rn and daughters	1387
Probability per decay of ¹²⁶ I	1373
Spectral analysis using COSPAJ program	1235
Transitions following decay of ¹²⁵ Sb	1349

Gas

Noble: activity concentration measurement	1207
---	------

Gauge

Dual energy γ -ray ash: influence of coal thickness change on reading	1633
--	------

Generator

Production of α -emitters	345
----------------------------------	-----

Geoscience

In China: use of airborne γ -ray spectrometry for mapping	139
--	-----

Glass

Microspheres containing radionuclides: production at University of Missouri research reactor	295
--	-----

Gold

¹⁹⁸ Au: activity measurement in gold foil	1185
¹⁹⁹ Au: production at BNFL for nuclear medicine	285

Growth factor

Insulin like: effect on body composition of HIV/AIDS males	653
--	-----

Hafnium

Cross sections for (n,2n) (n,p) and (n, α) reactions at 14.7 MeV	1529
--	------

Hair

Arsenic concentration by NA	753
-----------------------------	-----

Half life

¹⁵² Eu and ¹⁵⁴ Eu determination	1397
⁵⁵ Fe determination	1363
¹⁷⁶ Lu determination	1653
¹⁵³ Sm determination	1345
²³³ Th determination	1329
^{102m,g} Rh: β decay	1481
^{105m} Rh determination	981

HDEHP

Use in separation of carrier free Lu produced in proton activated ytterbium	911
---	-----

Hormone

Growth: effect on body composition of HIV/AIDS males	653
Growth: effect on body protein of adults with GH deficiency	667

Humans

Children: precision of multifrequency bioelectrical impedance measurements	529
Correlation between skeletal calcium mass and muscle mass: effects of age, gender and ethnicity	597
Elderly: assessment of body fat and lean by C/O ratio measurements	723
HIV/AIDS males: effects of insulin like growth factor and growth factor on body composition	653

Male: evaluation of modified multicompartment models to calculate body composition	599
Very old: relation of muscle mass and fat mass to bone mineral density	745
<i>Hydrostat</i>	
Simulation study of design for detecting underground water leakage	1729
<i>Imaging</i>	
Agent $^{99m}\text{TcN}(\text{NOEt})_2$: preparation and stability	1591
Characteristics of $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$ phosphor for use in x-ray detectors	931
Plate: use in quantitative measurements of radioactivity	1127
Prospects with associated particle timing with D + D and D + T neutrons	553
Quantitative ultrasound of Os Calcis	681
Radioisotope: collimator parameters and their optimization	939
<i>Indium</i>	
In presence of iron: adsorption studies on a cation exchanger	899
<i>International committee for radionuclide metrology</i>	
Conference at NIST Gaithersburg, USA, May 1997	
Editorial	9/11 vi
Preface	1033
Proceedings	9/11
<i>International symposium on radiological problems with natural radioactivity in the non-nuclear Industry</i>	
8–10 September 1997 Amsterdam: review	273
<i>In vivo</i> body composition studies	
Malmö: editorial	5/6 vii
Preface	5/6 ix
<i>Iodine</i>	
^{120}I : nuclear data relevant to production from $^{120}\text{Te}(\text{p},\text{n})$ process	1493
^{120}I production: relevance of excitation functions of (p,x n) reactions on ^{122}Te	93
^{123}I assay: intercomparisons in UK hospitals 1996	1449
^{126}I decay: measurement of γ -ray probability	1373
^{129}I : determination in ^{131}I pharmaceuticals produced in THOR	1587
^{123}I -(S)-(-)-3Iodo-2-hydroxy-6-methoxy-N-[(1-ethyl-2-pyrrolidyl)methyl]benzamide (IBZM)	
Preparation	369
<i>Ion</i>	
Migration of ions through coatings: measurement by β -decaying nuclides	13
<i>Ion exchange</i>	
Cation: radiometric studies on adsorption of iron and also In and Ga in the presence of Fe	899
Use in radioactive waste management: removal of Ba ions from aqueous solutions by hydrous bismuth oxide	43
<i>Ionization chamber</i>	
4π : analysis of response using EGS4 Monte Carlo code	1245
Portability of calibration of BIPM's SIR	1417
<i>Ionizing radiation</i>	
Exposure at work due to NORM used in industry	205
Regulations in the UK	211
<i>Iridium</i>	
^{192}Ir : absolute measurements of radioactivity	1179
^{192}Ir : production at RIAR	299
^{192}Ir solution: international comparison of activity measurements	1437
<i>Iron</i>	
Effect of weight fractions on build-up factors of soils	977*
^{55}Fe : activity concentration measurements in the EUROMET 297 project	1403
^{55}Fe : activity measurement by an efficiency calculation method	1073
^{55}Fe : standardisation and half life measurements	1363

⁵⁵ Fe: standardisation with the CIEMAT/NIST LSC tracer method	1055
K_β/K_α x-ray intensity ratios	1367
Radiometric adsorption on Dowex-50 cation exchange resin	899
<i>Irradiation</i>	
γ : effect on N content and digestibility of poultry excreta	767
<i>Isomer</i>	
Study of isomeric yield ratios produced with bremsstrahlung	989
<i>Isotope</i>	
Stable: use as a tracer in studies on electrolyte and trace metal metabolism	629
<i>Kidney</i>	
And urinary tract disorders: effect of mineral content of medicinal plants	773
Cd burden by IVNAA of jig solderers	701
Failure: effect of dialysis on body composition	665
Measurement of Cd by IVNAA	699
Risk to lead and cadmium smelters: assessment by <i>in vivo</i> XRF	711
<i>Krypton</i>	
⁸⁸ Kr: calibration of equipment for activity concentration measurements	1207
<i>Lanthanum</i>	
¹²⁶ La isomers: measurement of Q_{EC} values	829
<i>LAURA</i>	
Computer program for evaluation of production of radionuclides in a reactor	379, 383
<i>Lead</i>	
Assessment of exposure of children from KXRF measurement of shed teeth	703
Determination in Pb-Zn ores in boreholes by γ - γ techniques	125
²¹⁰ Pb: concentration on sediments off the Cumbrian coast	1295
²⁰³ Pb cyclotron produced: isolation using a lead selective extraction chromatographic resin	357*
²¹² Pb separation from natural thorium	89
Smelter workers: assessment of risk of kidney effects by <i>in vivo</i> XRF	711
Toxicology	697
<i>Leucocyte</i>	
Labelling agent: stabilisation of ^{99m} Tc-DL-HMPAO	1595
<i>Lithium</i>	
Lactate: use as an ESR dosimeter	823
Titanate: synthesis for removal of Cd(II) ions	1467
<i>Liver</i>	
Cadmium burden of jig solderers by IVNAA	701
Disease: measurement of fat free mass and muscle bulk and strength	661
Transplantation: risk factors for loss of lean body mass by DXA	663
<i>Lunar DPX absorptiometer</i>	
Comparison of two instruments for <i>in vivo</i> measurement of body composition	527
Stability of measurements of body composition	519
Total body phantom	525
Use for body composition analysis of pigs	521
<i>Lutetium</i>	
¹⁷⁶ Lu: measurement of half life	1653
Separation carrier free from proton activated ytterbium with HDEHP	911
<i>Lymphodema</i>	
Quantification using multifrequency bioimpedance	651
<i>Magnesite</i>	
Sorption studies of Cs^+ and Ba^{2+} cations	915
<i>Magnesium</i>	
²⁷ Mg: γ -ray emission probabilities in the decay	985

<i>Mammography</i>	
Evaluation of imaging characteristics of $\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$ phosphor in the x-ray detector	931
<i>Manganese</i>	
$\text{K}_\beta/\text{K}_\alpha$ x-ray intensity ratios	1367
<i>Mann, Wilfred Basil</i>	
Dedication	9/11ix
<i>Material</i>	
Spiked reference for γ -ray spectrometry: quality control in production	1421
^{11}C <i>Melatonin</i>	
Synthesis of 2-iodo and 2-phenyl derivatives for use as PET tracers	1573
<i>Membrane</i>	
PEDT/PVC: use in preparation of $4\pi\beta$ sources	1259
Semipermeable for retention of platinum atoms in electrodeposition process of α -spectrometry sources	1269
<i>6-Mercuric DOPA precursors</i>	
Support on polystyrene for automated synthesis of 6-[^{18}F]fluoro-L-DOPA	795
<i>Mercury</i>	
Toxicology	697
<i>Metabolic rate</i>	
Basal: correlation with total body capacity	493
<i>Metal</i>	
Heavy: toxicology of Pb, Cd, and Hg	697
Hydrides: use to synthesise ^{11}C formaldehyde	1597
<i>Methionine</i>	
^{35}S labelled: production at State Scientific centre of Russian Federation	305
$[4\text{-Methoxy-}^{11}\text{C}]$ <i>daunorubicin</i>	
Enzymatic synthesis	811
<i>Metrology</i>	
Radionuclide: proceedings of conference at Gaithersburg, May 1997	
Editorial	9/11 vii
Preface	1033
Radionuclide: traceability, equivalence and quality assurance	1445
<i>Microplate</i>	
Development for radioluminography by ^{32}P	35
<i>Molybdenum</i>	
^{99}Mo : production at State Scientific Centre of Russian Federation	305
<i>Monitors</i>	
For field measurement of NORM	197
<i>Monte Carlo simulation</i>	
EGS4 code: use to measure $4\pi\gamma$ ionisation chamber response	1245
Method: use to calculate collimator performance parameters	939
Methods for <i>in vivo</i> analysis of cisplatin using XRF	673
Midway coupling method: application to well logging problems	1737
Modelling of an <i>in vivo</i> NAA system: benchmarking the MCNP code	545
Of PGNAA system for cement raw material analysis corrections using MCNP code	923
Of prompt gamma neutron activation analysis using MCNP code	541
Program for computing low energy γ - and x-ray propagation in an axially symmetric XRF system	559
Use to aid design and optimization of a polarised source for <i>in vivo</i> XRF	707
<i>Muscle</i>	
Bulk and strength in liver disease	661
Distribution: variations with body weight, gender and age	733
Mass: correlation with skeletal calcium mass in humans	597
Mass in relation to bone mineral density in very old men and women	745
Total body measurement using fast neutrons	737
Upper extremity mass: measurement with single frequency bioimpedance analysis	473

<i>Mushroom</i> <i>see also Basidiomycetes</i>	
Use as a bioindicator for radiocesium deposition in soil	19
<i>Neptunium</i>	
$^{237}\text{Np}/^{233}\text{Np}$ concentration in sediments off the Cumbrian coast	1295
<i>Neutron</i>	
Back scattering: use of simulation study of a hydrostat design for detecting underground leakage of water	1729
^{252}Cf source: production at RIAR	299
Cosmic: intensity at sea level at zero degree latitude	415
D + D and D + T: prospects of imaging by associated particle timing	553
Fast: use for measuring muscle	737
14.5 MeV: semi-empirical systematics of (n,p) reaction cross sections	1497
Thermal: absorption cross section for dolomite and zechstein limestone	1701
Thermal: development of alanine-born compouynd for fluence measurements	1657
<i>Nickel</i>	
K_{β}/K_{α} x-ray intensity ratios	1367
$^{nat}\text{Ni}(\text{p},\text{x})^{57}\text{Ni}$ process: study up to 44 MeV for monitor purposes	1533
^{63}Ni activity concentration measurements in the EUROMET 297 project	1403
^{63}Ni source: stability in ultima Gold® liquid scintillation cocktail	1041
Target: use to produce ^{61}Cu	79
<i>Niobium</i>	
^{93m}Nb and ^{94m}Nb : determination in medium and low level radioactive waste	1277
<i>NORM (Naturally occurring radioactive material in the environment)</i>	
Concentrated wastes: near surface disposal	265
Elevated levels: world wide studies of environmental effects	169
Enhanced concentrations: disposal options and pathway assessment	241
Field survey and instrumentation and radioanalytical procedures	197
Ionizing radiation: exposure at work	205
Potential environmental and regulatory implications of NORM	189
Regulatory control in the UK	211
Sources and their origins: review	149
Special issue of JARI: foreword	147
Technologically enhanced: pathway analysis and radiological impact	227
Waste disposal	215
<i>Osteoporosis</i>	
Effects on sketal Ca/P ratio and on structure of rabbit bone and skin collagen	657
Investigation by quantitative ultrasound	681
Risk assessment by DXA study of BMD between different anatomical sites in normal population	685
<i>Oxygen</i>	
^{18}O replacement in labelled phosphate as indication of cumulative bioactivity in soil	855*
Ratio to carbon as a measurement of body fat: validation against hydrodensitometry	723
Total body: assessment from body weight and total body water	603
<i>Palladium</i>	
^{234m}Pa : anomalies in measured secular equilibrium with ^{234}Th	1337
<i>Particle</i>	
Associated, timing: prospects of imaging	553
Associated, timing: use in elemental analysis	549
Charged, activation analysis: use in the biological field	761
Radioactive: detection and characterisation	1091
Radioactive, hot: detection in environmental samples by repeated mixing	1625
<i>Penicillamine disulfide</i>	
Labelling with ^{99m}Tc	805

PET		
Tracers for melatonin binding sites: synthesis of 2-iodo and 2-phenyl [^{11}C]melatonin	1573	
Phantom		
Whole body: for use with Lunar DXA	525	
Whole body with anthropomorphic skeleton: development for dual energy x-ray absorptiometry	503	
Phase angle spectrum analysis		
Use in single frequency impedance measurements of body water	489	
Phosphate		
Labelled: oxygen replacement as indicator of cumulative bioactivity in soil	855*	
Phosphor		
Desmarquest AF955R: intensity of growth of scintillation and long-lived residual emission	55	
Imaging system for detection and characterisation of radioactive particles	1091	
$\text{Y}_2\text{O}_2\text{S}:\text{Eu}^{3+}$: imaging characteristics evaluation for x-ray detectors used in mammography	931	
Phosphorus		
^{32}P : development of microplate for determination by radioluminography	35	
^{33}P : production at RIAR	299	
Photon		
Absorptiometry: use in determination of bone mineral density	1511	
Fat and water scattering data for <i>in vivo</i> lean and fatty tissue composition studies	631	
Low energy: Si(Li) detector response	1083	
Polarized: non-linear effects in transport	83	
Plant		
Ayurvedic medicinal: elemental composition by NAA and absorption spectrometry	773	
Cabbage, lettuce and celery in Hong Kong: transfer of ^{137}Cs from soil	1695	
Natural and man-made radioactivity in vicinity of research reactor at Inshass, Egypt	1709	
Platinum		
<i>In vivo</i> measurement in head and neck tumours	647	
Retention on semipermeable membrane in the electrodeposition process of α -spectrometry sources	1269	
Plutonium		
Oxide standard: preparation	1265	
$^{238-241}\text{Pu}$: concentration in sediments off the Cumbrian coast	1295	
Review of data for content in bone	903	
Poisson process		
In counting: time distortion and effect on experimental uncertainty	1213	
Polymer		
PEDT/PVC membrane: use to prepare $4\pi\beta$ sources	1259	
Polystyrene		
Support with bound 6-mercuric DOPA precursor: use for synthesis of 6-[^{18}F]fluoro-L-DOPA	795	
Porcelain		
Pre-dose effect in the 230°C TL glow peak: in retrospective dosimetry	99	
Positron		
Lifetimes in Bi-superconductors: determination from annihilation lifetime spectroscopy (PAL)	1649	
Potassium		
^{38}K + aqueous solution: production <i>via</i> the $^{40}\text{Ar}(\text{p},3\text{n})$ process	1505	
^{40}K		
Concentrations in mushrooms in Taiwan	29	
Concentrations in sediment off the Cumbrian coast	1295	
Concentrations in soil in and around Dhaka city, Bangladesh	133	
Content in soil: monitoring by means of mushrooms	19	
Measurements: use to calculate lean body mass	571	

Measurements: use to determine total body water	671
Titanate: synthesis for removal of Cd(II) ions	1467
Total body: correlation between muscle mass and skeletal calcium mass in humans	597
<i>Potentiometric stripping analysis</i>	
Use to monitor trace elements in wounds and wound fluids	677
<i>Program</i>	
COSPAJ continuum fitting routine: use in γ -ray spectral analysis	1235
LAURA: use of numerical evaluation of production of radionuclides in a reactor	379, 383
Monte carlo: for computing low energy γ - and x-ray propagation in an XRF system	559
Peak fitting for α -spectrometry: choosing fitting functions	1225
<i>Prostaglandin Δ^7PGA methyl ester</i>	
Synthesis of a ^{18}F labelled analog using p -[^{18}F] fluorobenzylamine	1551
<i>Protein</i>	
Body: effect of long term treatment with GH of adults with GH deficiency	667
Body: use as prognostic instrument for cancer patients	639
Radioiodination: synthesis of N-succinimidyl 3- and 4-iodobenzoate	955
Total body in rats: assessment by PGNAA	731
<i>Pulse</i>	
Interval time analyzer to study high order effects in processing nuclear detector signals	1099
Recording system, computer based: development	1141
Shape analysis using similarity	1219
Small, correction for: in internal counting with proportional counters	1107
<i>Pyrene</i>	
Effect on α -counting efficiency	1065
<i>[3-^{11}C]Pyruvic acid</i>	
Synthesis using alanine racemase	1557
<i>Q_{EC} values</i>	
Measurement for ^{126}La isomers	829
<i>Quaternary pyridinium and phosphonium salts</i>	
Polymer supported: use as catalysts in production of $[^{18}\text{F}]$ FDG	373
<i>Radiation protection</i>	
Against ionizing radiation due to use of NORM in industry	205
Concern in areas with elevated NORM	169
Concerning natural radioactivity: review of international symposium 8-10 Sept. 1997, Amsterdam	273
Regulatory control and NORM: UK position	211
<i>Radioactivity</i>	
Discovery and origins: review	149
Low level measurement by simultaneous β -counting in anticoincidence and difference	1195
Measurements: pulse recording system	1141
Measurements: role of covariances for uncertainty estimates	1153
Natural and artificial: level in Algeria	867
Natural in the non-nuclear industry: review of symposium 8-10 Sept. 1997, Amsterdam	273
Natural and man made in soils and plants in the vicinity of reactor at Inshass, Egypt	1709
Precision in quantitative measurements: improvement	1127
Uptake by marine surface sediment on West Algerian coast	1745
<i>Radiography</i>	
Neutron: use to detect corrosion in aircraft aluminium alloys	779

<i>Radioimmunotherapy</i>	
Radionuclide development at BNFL	285
Use of purified n.c.a. ^{47}Sc	1541
<i>Radioisotope</i>	
Imaging: collimator parameters and optimisation	939
Production for medical use at the Institute of Physics and Power engineering, Obminsk, Russia	305
Reactor produced at Oak Ridge: use for bone pain palliation	309
<i>Radioluminography</i>	
Microplate: development for ^{32}P determination	35
<i>Radionuclides</i>	
Accumulation in near shore sediments along Bulgarian Black Sea coast	1721
Assay in environmental samples: evaluation of Brazilian intercomparison data	1463
Calibrators: metrological supervision over 15 years	1459
Distribution in soil in and around Dhaka city (Bangladesh)	133
For bone pain palliation: overview	277
Measurement of rare α -decays	113*
Metrology conference of ICRM, Gaithersburg, USA, May 1997	
Editorial	1033
Preface to proceedings	9/11 vii
NPL secondary standard calibrator	1191
Partitioning in soils and sediments	1289
Production at RIAR	299
Production in a reactor: numerical evaluation	379
Production in the reactor at the University of Missouri	295
Production simulation using LAURA program	383
<i>Radiopharmaceutical</i>	
Administered dose accuracy checks: Canadian experience	1453
NEI/NIST standards and measurement assurance program	329
Review of use in bone pain palliation	277
$^{117\text{m}}\text{Sn-DTPA}$: standardization	317
<i>Radiotherapy</i>	
Radionuclide production at the University of Missouri	295
<i>Radiotracer</i>	
Use for adsorption study on the removal of Cd(II) by alkali metal titanates	1467
Use to study sorption of zinc on soils	1
<i>Radium</i>	
^{223}Ra : nuclear characteristics and production parameters	345
^{224}Ra : separation from natural thorium	89
^{226}Ra : concentration in sediments off the Cumbrian coast	1295
^{226}Ra : seasonal variations in spring waters of Aguas da Prata, Brazil	423
Review of data for content in bone	903
<i>Radon</i>	
Airborne: analysis in an ultra low background experiment	1749
Concentrations in areas with elevated NORM	169
Emanation and exhalation from soils: measurements	407
Modelling of charcoal canister with a diffusion barrier for improved adsorption	49
Progeny: equilibrium factor and unattached fraction in Kaohsiung, Taiwan	1613
^{222}Rn	
And daughters decay: emission probabilities of main γ -rays	1387
And its progeny: radiation dose to the human respiratory tract	783
Assay in water samples by modified integral counting method	861
Seasonal variations in spring water of Aguas da Prata, Brazil	423
Standards: production and measurement	1171
Variations in ground water in W. Syria	117
<i>Rare earths</i>	
Isotopes: cross sections for (n,2n) (n,p) and (n, α) reactions at 14.7 MeV	1529

Reactor

High flux isotope: use at ORNL for production of radioisotopes for bone pain palliation	309
Nuclear, applications: assessment and evaluation of decay data	1393
Research at the University of Missouri: use to produce radionuclides for radiotherapy	295
Research Institute of Atomic Reactors, Russia: review of radionuclide production	299
Vicinity of Inshass, Egypt: natural and man made radioactivity in soils and plants	1709

Resins

Crown ether compound: use in analysis of radiostrontium in environmental samples	1671
Lead selective: use in chromatographic isolation of cyclotron produced ^{205}Bi , ^{206}Bi and ^{203}Pb	357*

Respiratory

Human: radiation dose from inhalation of ^{222}Rn and its progeny	783
--	-----

Rhenium

Oxorhenium complexes: synthesis, structure, lipophilicity and protonation behaviour	961
^{188}Re : calibration using NPL secondary standard calibrator	1191
^{188}Re : production at ORNL for bone pain palliation	309
^{188}Re -HEDP complex: synthesis and stability	351

Rhodium

$^{102\text{m},\text{g}}\text{Rh}$: β -decay half lives and level ordering	1481
$^{105\text{m}}\text{Rh}$: determination of half life	981

Rock

Dolomite and zechstein limestone: neutron properties	1701
<i>In situ</i> x-ray fluorescence analysis: surface geometrical structure effect	1713
Kenyan: optimization of x-ray fluorescence elemental analysis	885

Ruthenium

^{106}Ru : calibration using NPL secondary standard calibrator	1191
$^{106}\text{Ru}/^{106}\text{Rh}$: concentration in sediments off the Cumbrian coast	1295

Samarium

Cross sections for (n,2n) (n,p) and (n, α) reactions at 14.7 MeV	1529
^{153}Sm	
Calibration figures using NPL secondary standard calibrator	1191
Production at BNFL for nuclear medicine	285
Production at ORNL for bone pain palliation	309
Standardization	1345

Sample

Environmental	
Detection of radioactive hot particles by repeated mixing	1625
Radionuclide assays: evaluation of Brazilian intercomparison program data	1463
Radiostrontium analysis using crown ether compounds and Cerenkov counting	1671
^{234}Th and $^{234\text{m}}\text{Pa}$ activities	1337

Scandium

^{47}Sc : production at BNFL for nuclear medicine	285
^{47}Sc n.c.a.: purification for radioimmunotherapy	1541

Scattering

Elastic, cross sections: estimation in the x-ray region and anomalous dispersion	835
--	-----

Scintillation cocktail *see also cocktail*

Ultima Gold [®] : stability of ^{63}Ni sources	1041
--	------

Scintillator

Deuterated cyclohexane and cyclohexane: deuteron and proton response functions	397
--	-----

Sediment

Determination of $^{243}\text{Cm}/^{244}\text{Cm}$ ratio in vicinity of nuclear plants	1283
Intertidal from Cumbrian coastline: characteristics	1295
Marine surface, W. coast of Algeria: uptake of radioactivity	1745

Near shore along Bulgarian Black sea coast: radionuclide accumulation	1721
Radiometric partitioning	1289
<i>Selenium</i>	
^{75}Se standardisation by β -efficiency extrapolation method	1165
<i>Shell-source method</i>	
For calibrating radwaste detection systems: parametric study	361
<i>Silicon</i>	
Effect of weight fractions on build-up factors of soils	977*
<i>Silver</i>	
$^{110\text{m}}\text{Ag}$: standardisation by β -efficiency extrapolation method	1165
<i>Skin</i>	
Collagen: effects of inflammatory osteoporosis	657
Temperature and sweating: effect on bioimpedance measurements	475
<i>Sodium chloride</i>	
Na^{36}Cl : use to study migration of ions through coatings	13
<i>Soil</i>	
Detection of radioactive hot particles by repeated mixing	1625
Distribution of radionuclides near Dhaka city, Bangladesh	133
Measurement of radon emanation and exhalation rates	407
Natural and man made radioactivity in the vicinity of reactor at Inshass, Egypt	1709
Quantification of bioactivity via replacement of oxygen in labelled phosphate	855*
Radiocaesium deposition: use of mushrooms as a bioindicator	19
Radionuclide partitioning	1289
Sorption of zinc around Sapporo city (Japan)	1
Variation of build-up factors with weight fractions of iron and silicon	977*
<i>Solute</i>	
Primary: influence on alpha/beta discrimination	1065
<i>Source</i>	
Alpha: preparation by electrodeposition	1269
$4\pi\beta$: preparation using self-supported PEDT/PVC conducting membranes	1259
Mixed alpha: preparation by electrodeposition	1273
Polarised for <i>in vivo</i> XRF analysis: computer aided design	707
<i>Spectra</i>	
α -particle analysis: uncertainty assessment	1241
γ -ray analysis using COSPAT program	1235
Phase angle analysis: use in single frequency impedance measurements of body water	489
<i>Spectrometer</i>	
Liquid scintillation: use with a modified integral counting method for assay of ^{222}Rn in water	861
<i>Spectrometry</i>	
Airborne γ -ray: application to geoscience in China	139
α -particle: choosing functions for peak tails	1225
α and γ : use for monitoring NORM levels	197
Bioimpedance: accuracy and clinical significance in determination of body water compartments	447
Counting-computer simulations: effect of pulse pile-up and system dead time on experimental uncertainty	1213
Energy dispersive x-ray: use in characterisation of radioactive particles	1091
γ -ray	
Multichannel time scaling technique	1201
Quality control in production of spiked reference materials	1421
Spectral analysis with the COSPAJ continuum fitting routine	1235
γ - γ : use to determine Pb concentration in Pb-Zn ores in boreholes	125
Pulse shape analysis by using similarity	1219
X- and γ -ray: use to measure uranium enrichment	1251
<i>Spectroscopy</i>	
Absorption: elemental analysis of Ayurvedic medicinal plants	773

Multifrequency bioimpedance: evaluation for measurement of extracellular water space	481
Positron annihilation lifetime (PAL): use to determine positron lifetimes in Bi-super conductors	1649
<i>Standard</i>	
For ^{89}Sr for use in bone pain palliation: measurements	335
NIST bone ash reference material: development for environmental studies	1301
NIST radiopharmaceutical reference materials and measurement assurance program	329
Plutonium oxide: high purity preparation for use in radiochemical analysis	1265
^{222}Rn : production and measurement	1171
<i>Strontium</i>	
Review of data for content in bone	903
Sr/Ca mass ratio in bones using fast NAA	1319
^{89}Sr	
Decay and emission probability of the 909.12 keV γ -ray transition	1359
Measurement standards for use in bone pain palliation	335
Process for recovery from urine of injected patients	777*
Production at ORNL for bone pain palliation	309
^{89}Sr and ^{90}Sr in environmental samples: analysis using crown ether compounds and Cerenkov counting	1671
^{90}Sr : measurement in bone ash	1313
$^{90}\text{Sr}/^{90}\text{Y}$: concentration in sediments off the Cumbrian coast	1295
<i>N-Succinimidyl [^{124}I]iodobenzoate</i>	
Synthesis for labelling proteins	955
<i>Super conductor</i>	
Systematics in Bi-2201, -2212 and -2223 by positron annihilation radiation measurements	1649
<i>Tantalum</i>	
Compton scattering of 662 keV γ -rays from the k-shell electrons	815
^{182}Ta ; γ -ray emission probabilities	1383
<i>Target</i>	
Cooling water: use to produce n.c.a. ^7Be	1489
Nickel: use to produce ^{61}Cu	79
Thick: yield data bases of $2n + p$ processes	1005
<i>Technetium</i>	
No-carrier added 3 + 1 mixed ligand complexes: preparation	5
^{99}Tc solution: calibration of massic activity	1061
^{99m}Tc -DL-HMPAO preparations: stabilisation as a leucocyte labelling agent	1595
^{99m}Tc : labelling of penicillamine di sulfide	805
$^{99m}\text{TcN}(\text{NOEt})_2$ preparation from $[\text{Tc}\equiv\text{N}]$ intermediate and stability	1591
<i>Teeth</i>	
Estimation of essential and toxic trace elements by <i>in vivo</i> XRF	721
Radiologically important trace elements: review	903
Shed: use to assess Pb exposure of children by k-XRF measurements	703
<i>Tellurium</i>	
^{122}Te : excitation functions of (p, xn) reactions and relevance to production of ^{120g}I	93
^{125m}Te : measurement by LSC to determine branching ratio in ^{125}Sb decay	1377
<i>Terbium</i>	
Cross sections for $(n,2n)$ (n,p) and (n,α) reations at 14.7 MeV	1529
<i>Testosterone</i>	
Hydrated orthorhombic single crystals: ENDOR study of effects of γ -radiation	59
$[1-^{11}\text{C}] 1,2,3,4\text{-Tetrahydro-}\beta\text{-carboline derivatives}$	
Synthesis from $[^{11}\text{C}]$ formaldehyde	1599
<i>Thorium</i>	
Concentration in soil in and around Dhaka city, Bangladesh	133

Natural: extraction of ^{224}Ra , ^{212}Pb and ^{212}Bi	89
Review of data for content in bone	903
^{230}Th and ^{232}Th : concentration in sediments off the Cumbrian coast	1295
^{233}Th : half life determination	1329
^{234}Th : anomalies in measured equilibrium with $^{234\text{m}}\text{Pa}$	1337
Wastes from enhanced NORM: disposal options	241
<i>Thoron</i>	
Measurement of indoor concentrations using charcoal canisters	1691
<i>Thulium</i>	
Cross sections for (n,2n) (n,p) and (n, α) reactions at 14.7 MeV	1529
<i>Tin</i>	
$^{117\text{m}}\text{Sn}$	
-DTPA complex: standardization for use in bone pain palliation	317
Production at BNFL for bone pain palliation	285
Production at ORNL for bone pain palliation	309
$^{119\text{m}}\text{Sn}$: production at RIAR	299
<i>Tissue</i>	
Breast, normal and pathological: electron density using a Compton scattering technique	1677
Changes associated with lymphodema: quantification using multifrequency bioimpedance	651
<i>In vivo</i> lean and fatty composition studies: fat and water photon scattering data	631
Lean R value: effect of age and organ type	743
<i>Titanium</i>	
K_{β}/K_{α} x-ray intensity ratios	1367
Oxide: adsorptive properties for ^{125}I labelled HSA and fibrinogen	67
<i>Tomography</i>	
Computed, micro: use to monitor morphological changes in small animals	565
Computer: dose reduction for body composition measurements	561
<i>Trace element</i>	
Concentration in humans <i>in vivo</i> using x-ray fluorescence analysis	437
Concentrations and speciation in wounds and wound fluids	677
Essential and toxic: estimation in teeth by <i>in vivo</i> XRF	721
Metabolism studies using stable isotopes as tracers	629
Radiologically important: review of data for bone	903
<i>Track</i>	
Background: reduction in plastic detectors	1609
<i>Triple to double coincidence ratio method</i>	
Use in standardisation of ^{139}Ce	1035
<i>Tumour</i>	
Head and neck: optimisation of polarised x-ray sources for <i>in vivo</i> measurement of Pt	647
<i>Tungsten</i>	
^{188}W : production at ORNL for bone pain palliation	309
<i>Tyr</i> ³ -octreotide	
Solid phase synthesis	1581
<i>Ultrasound</i>	
Quantitative imaging of Os calcis	681
<i>Uncertainty estimates</i>	
In analysis of α -particle spectra	1241
In radioactivity measurement: role of covariances	1153
<i>URADOS process</i>	
Use in the measurement of uranium enrichment	1251
<i>Uranium</i>	
Concentration in soil in and around Dhaka city, Bangladesh	133
Enrichment measurement by x- and γ -ray spectrometry with the URADOS process	1251

Extractive procedure for determination in water by LSC	875
Measurement in bone by <i>in vivo</i> XRF	713
Review of data for content in bone	903
^{234}U and ^{235}U : concentration in sediments off the Cumbrian coast	1295
^{238}U decay chains: anomalies	1337
Waste from NORM: disposal options	241
<i>Urine</i>	
Recovery of ^{89}Sr from injected patients	777*
<i>Vanadium</i>	
$\text{K}_\beta/\text{K}_\alpha$ x-ray intensity ratios	1367
^{49}V : standardisation by CIEMAT/NIST LSC method	1077
<i>Waste</i>	
Disposal of substances containing NORM	215
Disposal options for enhanced concentrations of NORM	241
Low level radioactive: disposal facility in W. Australia	259
NORM	
From extraction industry: potential environmental and regulatory implications	189
Near surface disposal	265
Radioactive: determination of $^{93\text{m}}\text{Nb}$ and $^{94\text{m}}\text{Nb}$	1277
Radioactive: management by ion exchangers	43
Radwaste detection systems: calibration and parametric study of shell source method	361
<i>Water</i>	
Body: phase angle spectrum analysis	489
Body status: assessment of multifrequency bioimpedance analysis	495
Content corrections in γ -count rate of a PGNAA system for cement raw material analysis	923
Cooling from targets: use to produce n.c.a. ^7Be	1489
Extracellular: estimation by x-ray fluorescence analysis of Br	1665
Extracellular: estimation by stable bromine and XRF analysis	635
Extracellular space in critically ill patients: evaluation of multifrequency bioimpedance spectroscopy	481
From Aguas da Prata spring (Brazil): seasonal variations of ^{226}Ra and ^{222}Rn	423
Ground in W. Syria: radon concentrations in microearthquake zone	117
In body compartments: determination by bioimpedance spectrometry	447
Photon scattering data for <i>in vivo</i> lean and fatty tissue composition studies	631
^{222}Rn concentration by a modified integral counting method	861
Surface and ground of Rio Grande do Norte, Brazil: α and β activities	893*
Total body: determination by IVNAA and ^{40}K counting in young and GH deficient adults	671
Total body: proximal and distal measurements by BIA in surgical patients	621
Tritiated: international comparison of specific activity measurements	1411
Underground leakage detection using a neutron back scattering system	1729
Uranium determination by liquid scintillation counting: extractive procedure	875
Use of BIA to measure alterations in body distribution in children	619
Use of bioimpedance to monitor status during rehydration of young children with diarrhoeal disease	607
<i>Well logging</i>	
Problem: application of midway coupling Monte Carlo method	1737
<i>Wound</i>	
Trace element concentrations and speciation	677
<i>Xenon</i>	
^{133}Xe : production at the State Scientific Centre of the Russian Federation	305
^{133}Xe activity measurements: international comparison	1429

X-ray

Absorptiometry, dual energy (DEXA)	503
Development of whole body phantoms	503
Precision of body composition measurements	501
Fluorescence analysis: trace element concentrations in humans	437
Fluorescence analysis of bromine for estimation of extracellular water	1665
Fluorescence elemental analysis: optimization for Kenyan rock	885
<i>In situ</i> fluorescence analysis of rocks:surface geometrical structure effect	1713
Polarised source: optimisation for <i>in vivo</i> measurement of Pt in head and neck tumours	647
Relative intensity ratios for elements $22 \leq Z \leq 29$ region	1367
XRF	
Analysis of cisplatin: Monte carlo methods	673
<i>In vivo</i> : computer aided design of a polarised source	707
<i>In vivo</i> : for estimation of trace elements in teeth	721
<i>In vivo</i> : measurement of uranium in bone	713
<i>In vivo</i> : use to evaluate risk of kidney effects in lead and cadmium exposed workers	711
K: measurements on shed teeth to assess Pb exposure in children	703
System: Monte Carlo program for computing low energy γ - and x-ray propagation	559
Use for estimation of extracellular water	635

Ytterbium

Cross sections for (n,2n) (n,p) and (n, α) reactions at 14.7 MeV	1529
Proton activated: use to produce carrier free lutetium	911

Zinc

2n + p processes: evaluated cross section and thick target yield data bases	1005
Sorption on surface soils	1
^{65}Zn : standardisation with the CIEMAT/NIST LSC tracer method	1055

